



# भारत का राजपत्र

## The Gazette of India

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No. 22] NEW DELHI, SATURDAY, MAY 28, 1977 (JYAISTA 7, 1899)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बंधित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 28th May 1977

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

21st April, 1977

602/Cal/77. Emhart (U.K.) Ltd. Systems for transferring heat. [Divisional date July 22, 1974].

603/Cal/77. Simon-Hartley Limited. Improvements in or relating to filter presses. (May 5, 1976).

604/Cal/77. Elkem-Spigerverket A/S. Method of producing compacted silica dust.

605/Cal/77. Elkem-Spigerverket A/S. Method of increasing the volume weight of silica dust.

22nd April, 1977

606/Cal/77. Union Carbide India Limited. Method for the production of activated manganese dioxide.

607/Cal/77. P. R. Baldota Fire extinguishing foams.

608/Cal/77. BBC Brown, Boveri & Company Limited. Apparatus for high pressure-charging an internal combustion engine.

609/Cal/77. FMC Corporation. Improved separator and method of slurry separation.

610/Cal/77. Associated Electrical Industries Limited. Improvements in or relating to actuating mechanisms for vacuum interrupters.

611/Cal/77. UOP Inc. Heat transfer tube and method of making same.

612/Cal/77. The Standard Oil Company. Process for producing unsaturated aliphatic acids and catalysts therefor.

23rd April, 1977

613/Cal/77. Regents of the University of Minnesota. Process for the production of insulin by genetically transformed fungal cells.

614/Cal/77. Clopay Corporation. Window shade.

615/Cal/77. K. Singh, A. Singh and S. Kaur. Device for driving rollers in tea crushing tearing and curling (C.T.C.) machines.

25th April, 1977.

616/Cal/77. Tractel Tirfor India Private Limited. Improvements in or relating to self-actuating load brake.

617/Cal/77. J. F. Werz Jr. KG. Process and device for the production of a mat from non-flowable molding preparation for pressed articles.

618/Cal/77. Sparkler Manufacturing Company. Continuous belt filter and filtration method.

619/Cal/77. Labaz. Process for preparing an acetamide derivative.

620/Cal/77. Labaz. Process for preparing an acetonitrile derivative.

621/Cal/77. Labaz. Process for preparing an acetic acid derivative.

26th April, 1977.

622/Cal/77. Cummins Engine Company, Inc. Dual cooling system.

623/Cal/77. Spurmach Espana, S. L. Improvements in spinning and twisting systems incorporating rotating rings.

27th April, 1977

624/Cal/77. R. S. Pandey. Uses of composite sections in manufacturing utensils, furnitures, boxes, buckets etc.

625/Cal/77. Hoechst Aktiengesellschaft. Stabilized red phosphorus and process for making it.

626/Cal/77. S. Poler. Method of making an intra-ocular lens.

627/Cal/77. Nestle's Products Limited. A process for preparing a flavoured beverage by the addition of an agent containing geranyl acetone and  $\Delta$ -decalactone. [Divisional date November 26, 1974]

628/Cal/77. Societe D'Etudes DE Produits Chimiques Preparation of a new vincamine salt. (May 11, 1976).

629/Cal/77 Schering Aktiengesellschaft. Herbicidally active 2-dimethyl carbamoylimino-1, 3, 4-thiadiazolin-3-ide salts, process for their manufacture and their use.

630/Cal/77. Schering Aktiengesellschaft. Herbicidally active benzodioxole derivatives, process for their manufacture and their use.

631/Cal/77. Carrier Corporation. Spine finned tube.

632/Cal/77. James Kerr & Co. Pty. Ltd. Drilling holes in pressurized vines.

633/Cal/77. O & K Orenstein & Koppel Aktiengesellschaft Werk Lubeck. Automatic control for the absorption of load oscillation in cranes with cables hoisting gear

#### APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

18th April, 1977

70/Mas/77. B. R. Chandrasekhar. Automatic all purpose electric cooker.

20th April, 1977

71/Mas/77 R. G. Reddy. Domestic liquid cases of Auto-Gas.

72/Mas/77. D. H. Veecumsee. A method of manufacture of metallic members from different metals in integral layer form.

22nd April, 1977

73/Mas/77. Mamarthanalayam Nanjappa Gounder Karunanna Gounder. A shank rod for use with pneumatic drills.

23rd April, 1977

74/Mas/77. Mr. S. Nagarathnam. Scientific storage for a seventh of mankind.

75/Mas/77. Mr. S. Nagarathnam. A novel and square design for lower cost masonry houses for masses at about half of the current costs.

76/Mas/77. Mr. S. Nagarathnam. A novel and square design for construction of masonry cinema halls and multi-storied flats and buildings.

77/Mas/77. C. H. Kumar. Safety device for security lock of scooter.

#### ALTERATION DATE

142088. } Ante-dated 25th August, 1962.  
1719/Cal/75. }

142096 } Ante-dated 27th February, 1974  
194/Mas/76. }

#### COMPLETE SPECIFICATIONS ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of such opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification respectively".

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depôt, 8, Hiran Shankar Ray Road, Calcutta, in due course. The price of each specification is Rs. 2/- postage extra if sent out of India) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Turned or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

#### CLASS 69M.

142059.

Int. Cl.-H01h 5/06, 31/14.

#### IMPROVEMENTS IN OR RELATING TO SWITCHES.

*Applicant : KERALA STATE ELECTRONICS DEVELOPMENT CORPORATION LIMITED, OF KELTRON HOUSE, VEERAYAMBAI AM, TRIVANDRUM-695001, STATE OF KERALA, INDIA.*

*Inventor : KAILASH KUMAR.*

Application No 189/Mas/74 filed December 16, 1974.

Opposition office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 5 Claims.

A switch comprising a sliding knob capable of operating the switch, a lever plate having a circular portion and an extending portion having a slit formed by two arms, in which said sliding knob rests in the off-position of the switch; a curved plate with an oval opening in the centre and a groove on its inner surface, said curved plate projecting downwards from the circular portion of the lever plate; a mounting bracket for the lever plate, the said mounting bracket having an axle on which the lever plate rotates and an extended limb with a fork like arrangement; an insulating contact plate having at one end a contact bracket, terminating into two contact points, and at the other end two prongs which move in the said groove in the inner surface of the said curved plate, said contact plate also having a small opening in the centre; a spring passing through the oval opening of the curved plate between the said two prongs and having one end thereof mounted in the said opening in the centre of the said contact plate and the other end to a hook-like projection in the extended limb of the mounting bracket; electrodes mounted on an insulating electrode bracket between which the contact points of the contact plate strike for switching on the circuit; the arrangement having such that the forward movement of the said sliding knob rotates the lever plate through an angle of five degrees relative to the prongs of the said contact plate lying thereon at one end, causing the prongs to be deflected by the spring tension to the other end and resulting in the contact points of the contact plate striking between the electrodes for switching on the circuit.

## CLASS 148C.

142060.

Int. Cl.-G03c 5/12, 5/14.

## AN IMPROVED METHOD OF FILMING HALF-SIZE MOTION PICTURE FILM.

*Applicant & Inventor:* NATESA PILLAI KANNUSAMY PILLAI RAMALINGAM, OF NO. 3/42, GANDHI STREET, KANAGAM, I.I.T. (POST), MADRAS-600036, TAMIL NADU, INDIA.

Application No. 53/Mas/75 filed April 3, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 2 Claims.

An improved method of filming a half-size motion picture film comprising replacing the usual camera aperture plate by an aperture plate having half the length, shooting the negative film with said half size aperture plate by running the film at normal speed so as to leave alternate half-size frames unexposed, utilising the said unexposed frames for a retake, if necessary, thereby obviating the necessity of extra footage of film for retake, and preparing positive film from said negative by first replacing the usual printer aperture plate by said aperture plate of half the length, printing a first message on a positive roll by running the roll in the usual speed so as to print alternate half size frames and leave the remaining alternate half-size frames masked, printing a second message on the said alternate unexposed half frames of the roll from the tail end to the beginning of the said roll, the said second message being non-consecutive to the said first message, thereby printing two non-consecutive messages upon said roll in reverse order so that the said two non-consecutive messages can be screened by running the roll on a projector fitted with a half-size aperture plate, first from one end to the other end and then, at the proper sequence, from said other end to the said one end, thereby dispensing with the usual step of rewinding of the rolls.

## CLASS 127H &amp; I.

142061

Int. Cl.-F16h 25/00, 25/04.

## VARIABLE TORQUE CONVERTER.

*Applicant & Inventor:* CHEERAM PARAMBIL MUHAMMAD, SALIM MANZIL, P.O. KAVUKKOD, (VIA) CHALISSERI, KERALA STATE, INDIA.

Application No. 101/Mas/75 filed July 10, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 5 Claims.

A variable torque converting device comprising of a driving crank or driving eccentric fixed on a driving shaft and a ratchet mechanism having an oscillating member and at least one ratchet wheel fixed on a driven shaft, the said oscillating member being mounted loosely with provision to rotate in either direction and having means to drive said ratchet wheel, the driving crank or driving eccentric and said oscillating member being connected by a connecting link, means being provided for altering the effective radius of said driving crank and/or effective length of said oscillating member, the arrangement being such that the torque transmitted is varied by changing the effective radius of said driving crank and/or effective length of said oscillating member.

## CLASS 52A &amp; 114D &amp; E.

142062.

Int. Cl.-C14b 1/02.

## IMPROVED GUIDING AND FEEDING DEVICE FOR MACHINES FOR SPLITTING SKINS, HIDES AND THE LIKE PRODUCTS.

*Applicant & Inventor:* GEORGES MERCIER AND JACQUES MERCIER, AT RUE DANIEL MERCIER, 07102, ANNONAY, ADRECHE, FRANCE.

Application No. 1440/Cal/74 filed June 27, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims.

Improved guiding and feeding device for machine for splitting skins, hides and similar products essentially comprising a cutting implement and two devices for guiding and feeding on both sides, above and below the said implement, characterized in that the lower guiding and feeding device comprises several rows of cylindrical means of support mounted in a superposition, which include a more particularly top row of a series of detachable cylindrical rings giving support to the products for splitting fed by the rings, the said cylindrical rings taking tangential support by a row of detachable flexible cylindrical counter rings which are themselves in tangential support on a feeding cylinder moved in rotation, the said feeding cylinder co-operating with these means assuring a rectitude of its axial alignment.

## CLASS 50A.

142063.

Int. Cl.-B65d 81/38.

## A HEAT INSULATED FLASK.

*Applicant:* N. M. NAGPAL & CO., OF 126, SECTOR 6, FARIDABAD, (HARYANA), INDIA.

*Inventor:* INDER MOHAN NAGPAL.

Application No. 631/Cal/75 filed March 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims.

A heat insulating flask consisting of an inner vessel made of, for example, glass and having an outer casing of expanded polystyrene embracing said vessel at least along a major surface thereof, said expanded polystyrene of the casing having a density of 10 to 30 gms/litre.

## CLASS 32F,c &amp; 39L &amp; N &amp; 40B

142064

Int. Cl.-B01j 11/00, C07c 121/32.

## PROCESS FOR THE MANUFACTURE OF ACYLONITRILE OR METHACRYLONITRILE.

*Applicant:* PRODUITS CHIMIQUES UGINE KUHLMANN, OF 25, BOULEVARD DE L'AMIRAL BRUIX, PARIS 16<sup>e</sup>, FRANCE.

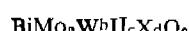
*Inventors:* SUMIO UMEMURA, KYOJI OHDA, TOORU OGAWA, TOMIKA YAMAMOTO, MIKIO KIDAKA, KAZUO FUKUDA, YASUO BANDO, MASAO SAWAJI AND HARUMI IKEZAWA.

Application No. 2604/Cal/73 filed November 26, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims. No drawings.

A process for the manufacture of acrylonitrile of methacrylonitrile from propylene or isobutylene, respectively, characterized by contacting in the vapor phase at a temperature above the ambient temperature a mixture of propylene or isobutylene, ammonia and oxygen with a catalyst having a composition corresponding to the empirical formula,



wherein II is at least one metal selected from metals of Group II of the Periodic Table; X is at least one metal selected from the group consisting of aluminium, titanium, zirconium, niobium, tantalum, vanadium, chromium, manganese, iron cobalt and nickel; and each of a, b, c and d is a number indicating an atomic ratio of the respective metal to bismuth and falling within the following ranges, a=0.3 to 10, b=0.05 to 3.0, c=0 to 6.0, d=0 to 5.0 and c+d=0.005 to 11.0 and e is a number which satisfies the average valency of the metals employed.

CLASS 40F &amp; 167C.

142065

Int. Cl.-G01n 25/00, 33/00.

**APPARATUS FOR PERFORMING FROM A MOVING VEHICLE A RAPID GEOCHEMICAL SURVEY OF AN AREA OF THE EARTH.**

**Applicant :** BARRINGER RESEARCH LIMITED, OF 304 CARLINGVIEW DRIVE, REXDALE, ONTARIO, CANADA.

**Inventor :** ANTHONY RENE BARRINGER.

Application No. 580/Cal/74 filed March 18, 1974.

Convention date March 19, 1973/(166, 975/73) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims.

Apparatus for performing from a moving vehicle a rapid geochemical survey of an area of the earth, comprising;

(a) means for receiving, at known locations,

an air stream containing atmospheric particulates which particulates may comprise matter that is indicative of the presence of a mineral deposit to said area,

(b) means for concentrating said particulates immediately after they have been received and while they are moving in a stream, and

(c) means for analyzing said concentrated particulates to determine if any of said matter is present therein and hence to determine the likelihood of the existence of said mineral deposit in said area.

CLASS 61A &amp; 189.

142066.

Int. Cl.-A45d 20/00

#### IMPROVED HAIRDRYER.

**Applicant & Inventor :** SALVADOR GALI MALLOFRE, OF CALLE LONDRES 29-10-2A, BARCELENA, SPAIN.

Application No. 585/Cal/74 filed March 19, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims.

An improved hairdryer for hairdressing saloons and domestic use, of the kind as herein described, characterized in that there are provided means for branching off the current of air, generated by the turbine inside the hood, towards a cold air exchanger wherefrom said current of air is conducted to a cooler, thus producing condensation of the main part of its moisture; and means for passing the current of air through a hygroscopic filter to a preheating chamber from which, through resistances, it is again taken up by the turbine.

CLASS 32E &amp; 146D.

142067.

Int. Cl.-G02c 7/04, C08g 31/00.

#### PROCESS FOR PREPARING A CONTACT LENS HAVING INCREASED OXYGEN PERMEABILITY.

**Applicant :** POLYCON LABORATORIES, INC., OF 2131 11. INDIAN SCHOOL ROAD, PHOENIX, ARIZONA, UNITED STATES OF AMERICA.

**Inventor :** NORMAN GRANT GAYLORD.

Application No. 977/Cal/74 filed April 30, 1974

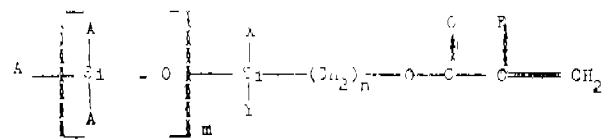
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim.

Process for preparing a contact lens having increased oxygen permeability and having a refractive index of from 1.35 to

1.50 a copolymer composition consisting essentially of:

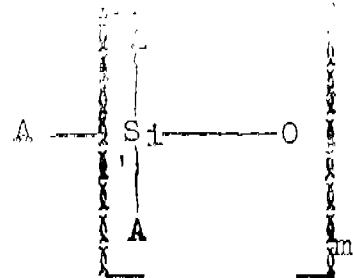
(a) 10 to 60 parts by weight of a polysiloxanylalkyl ester of the structure.



wherein

(1) X and Y are selected from the class consisting of C<sub>1</sub>-C<sub>4</sub> alkyl groups, phenyl groups and Z groups.

(2) Z is a group of the structure.



(3) A is selected from the class consisting of C<sub>1</sub>-C<sub>4</sub> alkyl groups and phenyl group.

(4) R is selected from the class consisting of substituted methyl groups and hydrogen,

(5) m is an integer from one to five, and

(6) n is an integer from one to three; and

(b) 40 to 90 parts by weight of an ester of a C<sub>1</sub>-C<sub>4</sub> monohydric alkanol and an acid selected from the class consisting of acrylic and methacrylic acids,

said process comprising fabricating said copolymer into a pre-selected physical shape, machining said shape to a concavo-convex contact lens configuration and polishing the same in a manner such as hereinafore defined to form the finished contact lens.

CLASS 39C &amp; 40A.

142068.

Int. Cl.-C01c 1/04, B01j 11/22.

#### PROCESS FOR THE PERFORMANCE OF HIGH PRESSURE SYNTHESIS.

**Applicant :** CHEMIE LINZ AKTIENGESELLSCHAFT, OF ST. PETER-STRASSE 25, 4020 LINZ, AUSTRIA.

**Inventor :** HELMUT HINRICH.

Application No. 1177/Cal/74 filed May 29, 1974.

Convention date January 25, 1974/(03690/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8. Claims. No drawings.

A process for carrying out a catalytic high pressure synthesis for example of ammonia using gaseous reactants in the presence of a fused iron oxide catalyst, which comprises passing the gas through one or more layers of a catalyst which consists predominantly or entirely of particles of which the length of one spatial dimension is several times the length of at least one of the two other spatial dimensions perpendicular thereto, and at least one of the smaller spatial dimensions is less than 5 mm long, the catalyst being so arranged in one or more cylindrical catalyst beds arranged in series in the direction of flow of the gas, that the particles are orientated with their longest spatial dimension substantially parallel to the direction of the flow of the gas.

CLASS 32E &amp; 104F &amp; J.

142069.

Int. Cl.-C08c 7/00, 11/00, 11/02, 11/04, 13/08.

**A METHOD OF PREPARING RUBBERS AND THERMOPLASTIC POLYMERS.***Applicant* : IMPERIAL CHEMICAL INDUSTRIES LIMITED, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON, S.W. 1., ENGLAND.*Inventors* : GEORGE MALCOIM HOOP, ERIC SAMUEL NICHOLSON AND VIJAY RATHA SHARMA

Application No. 1849/Cal/74 filed August 17, 1974.

Convention date August 31, 1973/(41021/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims. No drawings.**

A method of preparing rubber or thermoplastic polymers by incorporating into rubber or thermoplastic polymers anti-oxidants which slowly solidify at least in part when stored at temperature which method comprises adding to the rubber or thermoplastic polymer in a mixing apparatus, the anti-oxidants contained in sealed containers of material (such as herein described) compatible with the rubber or thermoplastic polymers whereby the containers are ruptured and the anti-oxidants mixed with the rubber or thermoplastic polymer.

CLASS 206C.

142070.

Int. Cl.-G01s 7/00.

**IMPROVEMENTS IN OR RELATING TO DOPPLER PULSE RADAR SYSTEMS.***Applicant* : SIEMENS-ALBIS AKTIENGESELLSCHAFT, ALBISBRIEDERSTRASSE 245, 8047 SURICH, SWITZERLAND.*Inventor* : HANSPELTER KUHFER.

Application No. 2192/Cal/74 filed September 30, 1974.

Convention date June 3, 1974/(24443/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**5 Claims.**

A doppler pulse radar system, in which means are provided for suppressing weather echoes in any selected range window, when operating, the signals received within said range window including in addition to a doppler signal from any airborne target, other doppler signals which are generated by moving and changing weather zones, and in which said means to suppress weather echoes changes the frequency of the doppler signals as well as their phase relationship with a reference signal derived from the transmitted signal, in order to generate a further measurement window, said further window being controlled by the range tracking system and/or a device actuated synchronously with the pulse repetition frequency in order to deflect the antenna beam, and an analyser device is provided which generates a signal whenever the frequency concentration of the doppler signal in the measurement window is beneath a given frequency threshold, as long as this doppler signal exceeds a given amplitude limit, and a compensating device is provided in the receiving channel and in the reference channel of said system, which operates during the time interval covered by the measurement window to influence cyclically switched, quantised, compensating quantities in accordance with the frequency and phase, and which acts in the presence of an echo signal to store the compensating quantity and allow it to act during the period of time covered by the range window.

CLASS 27B &amp; I.

142071.

Int. Cl.-E04b 13/00.

**MODULAR MAUSOLEUM CRYPT SYSTEM.***Applicant and Inventor* : EDWARD CARL DUWE, OF 3340 HIGHLAND SHORTS OSHKOSH, WISCONSIN 54901, UNITED STATES OF AMERICA AND WILLIAM*EDWARD DUWE, OF 1203 WASHINGTON AVENUE, OSHKOSH, WISCONSIN 54901, UNITED STATES OF AMERICA.*

Application No. 565/Cal/75 filed March 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims.**

A modular mausoleum crypt system which includes at least a first and second precast module, one of said modules comprising an upper, generally horizontally disposed slab, a pair of spaced side walls having respective longitudinal axes and depending from said upper slab, the spacing between said side walls of said module being of a pre-determined width to receive a casket therein, and a rear wall extending between said spaced side walls at one end of said module, said upper slab of said module extending laterally from about the longitudinal axis of one of said side walls to beyond the longitudinal axis of another of said side walls for a predetermined distance in cantilevered fashion and terminating at a free edge, characterized by the fact that said rear wall of said module extending substantially from about the longitudinal axis of one of said side walls of said module to beyond said free cantilevered edge forming a rear wall projecting portion, said second module having ledges for receiving said cantilevered edge and said rear wall projecting portion of said first module to form respective lap joints.

CLASS 107B.

142072.

Int. Cl.-F02b 59/00

**A NEW CONCEPT ON INTERNAL COMBUSTION ENGINE AND IT'S DESIGN.***Applicant & Inventor* : HARIDAS SARKAR, N-2, MANIKFOLLA GOVT. HOUSING ESTATE, ULTADANGA VIP ROAD, CALCUTTA-700054, INDIA.

Application No. 1367/Cal/75 filed July 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims.**

A rotary type of internal combustion engine characterised by the arrangement that has revolving assembly comprising of a number of combustion cells angularly interposed within the annular channel around the impeller, formed between the centrifugal compressor's two parallel and vertical side plates each having an opening cut out in the centre and on the outer sides of which, radially embraces the individual set of the two outer compressors' trough cum vanes attached on to the two shell type bearings placed in the front and rear of the revolving unit of the engine and they are geared and sprocketed (not shown), for the power transmission drive, auxiliary drives including the geared impeller shaft which is particularly driven by the said rear bearing and both of which are supported by the two ball bearing fixed on the two engine mount bracket ends for freely rotating the engine revolving assembly particularly while revolving within the exhaust inner stepped strip ring which is fixed onto the exhaust outer main ring assembly attached to the engine mount brackets and across the exhaust assembly angularly protrudes the number of fuel spray nozzles and spark plugs pointing towards the flared exhaust and outer ends of the combustion cells which are encircled by the exhaust assembly within the said annular channel formed by the two parallel side plates of the centrifugal compressor as already mentioned earlier.

CLASS 29A &amp; 67C &amp; 206F.

142073.

Int. Cl.-G06f 15/00.

**DATA PROCESSING SYSTEM.***Applicant* : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.*Inventor* : ALASTAIR GEORGE MACPHERSON.

Application No. 1530/Cal/75 filed August 4, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A data processing system having a first memory, a plurality of peripheral devices each having a service request line and a processor, said processor comprising :

a function unit to perform logical operations on data;

a control memory coupled to said function unit and containing control instructions to control data transfers to and from said function unit;

**Micro instruction fetch** means coupled to said first memory to fetch a sequence of micro instructions;

**control instructions fetch** means coupled to said micro instruction fetch means and to said control memory to fetch individual control instructions in response to the respective micro instructions;

**Priority resolution** means connected to said signal request lines and said first memory to receive sets of signals from said first memory for gating with all of said service request line signals, each set of signals representing a particular peripheral device; and

**Signal fetch** means coupled to said first memory, said control memory and to said priority resolution means to fetch said sets of signals in a sequence from the highest priority to the lowest priority under control of a control instruction.

CLASS 129G.

142074.

Int. Cl.-B28b 3/02.

**A LOCKING DEVICE FOR SELECTIVELY LOCKING A DESIRED ATTACHMENT TO A RAMMING AND CUTTING EQUIPMENT.**

*Applicant & Inventor* : ERIC LAWTON SUMMER, C/O. J. N. MARSHALL & CO., OF 20, R. N. MUKHERJEE ROAD, CALCUTTA, WEST BENGAL, INDIA.

Application No. 1926/Cal/75 filed October 6, 1975.

Addition to No 123458.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

Improvement in or modification of the locking device in a ramming and cutting equipment as disclosed and claimed in Parent Patent No. 123458 in which there is provided in the hollow collar a ring having a non-circular opening such as of square shape said ring being fitted at the lower end of the stem D of the ramming equipment and the shank of the attachment has a head of corresponding shape as the non-circular opening in the said ring, said head projecting from the said ring, and there are provided a pair of step rings on the shank, one of which remains within the hollow collar and the other remains below the hollow collar.

CLASS 32C & F<sub>1</sub> & 55D<sub>a</sub>.

142075.

Int. Cl.-A01n 9/12, 9/36 C07f 9/04, 9/16.

**PROCESS FOR THE PREPARATION OF O, O-DIALKYL S-BENZYL THIOPHOSPHATES.**

*Applicant* : IHARA CHEMICAL KOGYO KABUSHIKI KAISHA, OF NO. 1, KYOBASHI 2-CHOME, CHUO-KU, TOKYO-TO, JAPAN, AND NOW OF KUMIAI KAGAKU KOGYO BUILDING, 4-26, IKENOHATA 1-CHOME, TAITO-KU, TOKYO-TO-JAPAN.

*Inventors* : ZENICHI SATO, FUMIO SHIMIZU, SHOJI KUSANO, KEIICHIRO TAKAGI AND YOJI IMAMIYA.

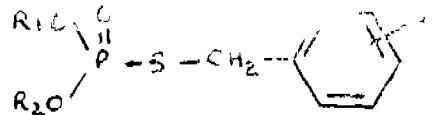
Application No. 329/Cal/76 filed February 25, 1976.

Convention date January 16, 1976/(01829/76) U.K.

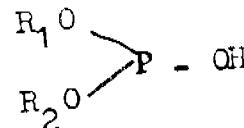
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims.

A process for the preparation of O, O-dialkyl-S-benzyl thiophosphates of the general formula I.



wherein R<sub>1</sub> and R<sub>2</sub> are each independently an alkyl group having from 1 to 5 carbon atoms and each Y group is independently a halogen atom, an alkyl group having from 1 to 4 carbon atoms, an alkoxy group having from 1 to 4 carbon atoms, an alkoxyl group having from 1 to 4 carbon atoms, or a nitro group, and n is zero or an integer from 1 to 4, which comprises reacting at least one diester of phosphorous acid of the general formula 2



wherein R<sub>1</sub> and R<sub>2</sub> are as defined above, with sulfur and at least one hydroxide or oxide of an alkali or alkaline earth metal, in an organic solvent which is sparingly soluble or insoluble in water and then reacting an aqueous extract of the resulting reaction product with a benzyl halide of the general formula 3.



wherein X is a halogen atom and Y and n are as defined above.

CLASS 201C.

142076.

Int. Cl.-C02b 1/18.

**PROCESS AND APPARATUS FOR THE PURIFICATION OF WASTE WATER CONTAINING SYNTHETIC DETERGENTS.**

*Applicant* : KLEEN-RITE/ARUNDALE, INC., 1173 RECO AVENUE, ST. LOUIS, MISSOURI 63126, U.S.A.

*Inventor* : THOMAS NEWELL DEANE.

Application No. 906/Cal/76 filed May 25, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

An apparatus for treating waste water characterized by means for supplying waste water containing a synthetic detergent, means to supply a treating chemical to the waste water to combine with the synthetic detergent contained therein, means combining the treating chemical with the synthetic detergent in the waste water, and means to separate the combined synthetic detergent and treating chemical from the water.

CLASS 32C.

142077

Int. Cl.-C08b 19/00, A61k 27/14.

**PROCESS FOR THE PREPARATION OF ANTITUMORIC SUBSTANCES.**

*Applicant* : KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, NO 8, HORIDOMECHO 1-CHOME, NIHONBASHI, CHUO-KU, TOKYO, JAPAN.

*Inventor* : KIROY ASANO, TSUYOSHI SAITO, HIROMITSU TANAKA AND SATORU ENOMOTO.

Application No. 2196/Cal/76 filed December 14, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

## 6 Claims. No drawings.

A process of preparing antitumor substances composed on nitrogen-containing polysaccharide by extracting the mycelia and/or fruit bodies of the fungus belonging to the class Basidiomycetes such as herein described with an aqueous solvent and refining the obtained extract by conventional method, characterized in that said fungus is extracted with an aqueous solvent under pressure at a temperature within the range of 120 to 200°C.

CLASS 56B & 88E. 142078.

Int. Cl.-C10j 3/00.

## PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS.

*Applicant* : PULIMAN INCORPORATED, OF 200 SOUTH MICHIGAN AVENUE, CHICAGO, ILLINOIS, UNITED STATES OF AMERICA

*Inventors* : JAMES RICHARD MURPHY AND LELAND WARD SCHNEIDER.

Application No. 1117/Cal/73 filed May 11, 1973

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 17 Claims.

A process for the production of synthesis gas which comprises :

introducing a hydrocarbon feedstock into a catalytic cracking zone in the presence of cracking catalyst under fluid cracking conditions to produce an effluent, fractionating said effluent to obtain a cracked naphtha fraction;

hydrogenating said cracked naphtha fraction with hydrogen to saturate olefins and aromatics at least partially and produce a more saturated cracked naphtha fraction; and

introducing said more saturated cracked naphtha fraction and steam to a catalytic steam reforming unit to produce synthesis gas effluent.

CLASS 68A. 142079.

Int. Cl.-H02i 7/00.

## BATTERY CHARGING SYSTEMS.

*Applicant* : THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND.

*Inventor* : FREDERICK WILLIAM WINKLEY AND WILLIAM FRANK HILL

Application No. 2521/Cal/73 filed November 16, 1973.

Convention date November 21, 1972/(53840/72) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A battery charging system including a generator charging a battery under the control of a voltage regulator, at least one non-essential load connected across the battery and means sensitive to the output voltage of the generator for disconnecting said non-essential load when the output voltage of the generator falls below a predetermined value.

CLASS 9E & F & 129G 142080

Int. Cl.-B22f 3/00.

## WEAR RESISTANT POWDER METALLURGY NICKEL-BASF ALLOY.

*Applicant* : CABOT CORPORATION, OF 125 HIGH STREET, BOSTON, MASSACHUSETTS, UNITED STATES OF AMERICA

*Inventors* : EDWARD MINTER FOLEY AND RONALD FRANKLIN POIK

A process of preparing antitumor substances composed on appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A process for producing wear-resistant articles which comprise shaping and sintering mixtures of metal powders composed, by weight, of chromium from about 23% to about 29%, tungsten from about 8% to about 15% cobalt from about 8% to about 15%, molybdenum from about 8% to about 15% carbon from about 1.65% to about 5% boron up to about 1% manganese up to about 1.30%, silicon up to about 1.3%, iron from about 10% to about 17.5%, the balance nickel in amount at least about 20%, incidental impurities, modifying elements up to 1% and optional elements up to 10%.

CLASS 114E & F. 142081.

Int. Cl.-C14c 1/08.

## BATING PREPARATIONS.

*Applicant* : ROHM G.M.B.H., OF DARMSTADT, FEDERAL REPUBLIC OF GERMANY

*Inventor* : ROLF MONSHEIMER AND ERNST PFLEIDERER.

Application No. 956/Cal/74 filed April 27, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims. No drawings.

Bating preparations comprising a mixture of a (a) bacterial protease having an optimum enzymatic activity against haemoglobin at a pH of 10 to 12; and b) a fungal proteinase having an optimum enzymatic activity against casein at a pH of greater than 7, a bacterial proteinase having an optimum activity against casein at a pH within the range of from 7 to 9 and/or trypsin.

CLASS 185E. 142082.

Int. Cl.-A23f 3/02.

## IMPROVEMENTS IN OR RELATING TO THE PRODUCTION OF COLD SOLUBLE TEA CONCENTRATES AND POWDERS.

*Applicant & Inventor* : ROBERT LOUIS WICKRAMASINGHE C/O TEA RESEARCH INSTITUTE OF SRI LANKA ST. COOMBS, TAI AWAKELLE, REPUBLIC OF SRI LANKA.

Application No. 1644/Cal/74 filed July 24, 1974

Convention date October 12, 1973/(7118/73) SRI LANKA

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims. No drawings.

A process for preparing a tea concentrate which comprises forming an aqueous solution containing soluble solids of tea, selectively removing in a manner such as herein described non-phenolic high molecular weight constituents of tea (as defined herein) while refining in solution the low molecular weight constituents having organoleptic properties, and concentrating the solution to a syrup or dry powder.

CLASS 156D. 142083.

Int. Cl.-F16i 15/40

## HYDRAULIC MACHINE.

*Applicant* : SOCIETE ANONYME SECMAFER, OF BUCHET AV MANTE, FRANCE

*Inventor* : JEAN-JACQUES BOYER.

Application No. 2103/Cal/74 filed September 21, 1974

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**2 Claims.**

A hydraulic machine comprising in combination a cylinder and a piston in said cylinder characterized in that said piston comprises a body of bronze having a cylindrical outer surface and having at the periphery thereof an annular groove opening in the end face thereof which is subjected to high pressure said groove being defined between a cylindrical inner surface and a truncated conical outer surface joined at the bottom by an annular surface which is semi-circular in cross-section, said conical outer surface forming an angle not exceeding 6° with the cylindrical outer surface of the piston, the piston between said cylindrical outer surface and said conical surface comprising a peripheral thin resiliently deformable flange having clearance with the cylinder of 1/100mm when undeformed but slidably engaging the cylinder when deformed outwardly by high pressure.

CLASS 112F.

142084.

Int CI-F21v 7/08, 7/09.

LAMP REFLECTORS AND MOTOR VEHICLE LAMP ASSEMBLIES INCORPORATING SAME.

*Applicant* : THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM 19, ENGLAND

*Inventors* : KENNETH JAMES JONES AND ROBERT ARTHUR HARGROVES

Application No. 2113/Cal/74 filed September 23, 1974

Convention date September 29, 1973/(45656/73) U.K.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta

**11 Claims.**

A motor vehicle lamp assembly comprising a lamp reflector constituted by a dished body having a reflective inner surface said body being elliptical in vertical axial section and having a different shape in horizontal axial section, said body also having a transverse vertical cross-section in which its horizontal width is greater than its vertical height, a filament mounted in the said reflector, and further reflector arranged to receive light from the filament, said further reflector having a reflective surface lying on a paraboloid of revolution.

CLASS 71G &amp; 166A

142085

Int CI-F02f 5/28.

IMPROVEMENTS IN OR RELATING TO DREDGING HEAD

*Applicant* : NATIONAL CAR RENTAL SYSTEM, INC. OF 5501 GREEN VALLEY DRIVE MINNEAPOLIS MINNESOTA 55437, UNITED STATES OF AMERICA

*Inventor* : CHARLES FRANCIS O'BRIEN.

Application No. 662/Cal/75 filed April 2, 1975

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta

**13 Claims.**

A dredging head adapted to be carried by a boom (55) on one end of a movable running dredge to loosen and remove material from the bottom of a body of water includes an elongated frame (100) attached to the boom and extending transversely to the boom; a suction intake conduit (95) attached to the elongated frame and adapted to transmit material into the dredge from the dredging head, a shaft (110) positioned on one end of the shaft for rotating the same a pair of screw type augers (125) having oppositely pitched flights mounted on and spaced apart on the shaft for directing material toward the center of the shaft and the spacing between the augers positioned adjacent the intake conduit on the frame; the head being characterized by a plurality of cutting blades (145) distributed circumferentially on the outer flights on longitudinally spaced relationship with each blade being connected to the peripheral edge of adjacent flights so as to

position the blades generally normal to the extent of the flights, a blade mounting plate (162) positioned on the frame adjacent the peripheral edge of the auger and extending parallel to the shaft, removably cutting blades (165) positioned on the edge of the plate and distributed along the extent of the plate to cooperate respectively with the cutting blades (145) on the auger to sever material therebetween, and an adjustable elongated panel (170) pivotally mounted on the frame and above the blade mounting plate, the panel being generally concave towards the augers and overlying the extent of the flights on the augers to cause flow of water in material around the augers and to the suction intake and with projecting fender members (179) thereon to prevent entrance of large objects into the augers

CLASS 40F &amp; 201D

142086.

Int CI-C02b 1/00.

REACTOR FOR PURIFICATION OF WATER BY FLUID FILTRATION

*Applicant* : AGROTECHNIKA, N.P. PODNIKOVY RIADITELSTVO, ZVOZEN, CZECHOSLOVAKIA

*Inventors* : SVATOPLUK MACKRLE VI ADAMIR MAKRIT AND OLDRICH DRACKA.

Application No. 803/C1/75 filed April 21, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

**5 Claims.**

A reactor for purification of water by fluid filtration comprising a vertically oriented tank containing a homogenizing, separating and thickening space, the homogenizing space having the shape of a truncated cone or pyramid narrowing towards the top, the separating space having the shape of a truncated cone or pyramid positioned above the homogenizing space and widening towards the top, a raw water inlet being provided at the bottom of the homogenizing space, a narrowed passage interconnecting the homogenizing space with the separating space, the thickening space being interconnected with the separating space by a connecting channel between the wall of the tank and a guiding wall

CLASS 24D..

142087.

Int. CI-B60t 11/16, 17/08.

A MASTER CYLINDER ASSEMBLY FOR A VEHICLE HYDRAULIC BRAKING SYSTEM

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, FYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventor* : ROY ERNST EDWARDS.

Application No. 1035/Cal/75 filed May 22, 1975

Convention date June 8, 1974/(25543/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims.**

A master cylinder assembly of the kind set forth for a vehicle hydraulic braking system in which the transfer valve means is located in the transfer passage and comprises an unsprung valve member adapter to be urged into engagement with one of a pair of spaced valve seatings to cut-off communication between the pressure spaces when one master cylinder is operated on its own, and the unsprung valve member is adapted to be held in a neutral position spaced from both seatings when the master cylinders are operated simultaneously.

CLASS 32F &amp; Fb &amp; 54F.

142088.

Int CI-C07c 35/10

PROCESS FOR THE PREPARATION OF SUBSTITUTED ISOPROPYL DERIVATIVES

*Applicant* : CHINON GYOGYSZER ES VEGYESZETI TERMELKEK GYARA RT. OF 1-5 TO UTCA, BUDAPEST IV HUNGARY.

*Inventors* : ZOLTAN MESZAROS, DR. PETER SZENTMIKLOSI AND MISS IREN CZIBULA.

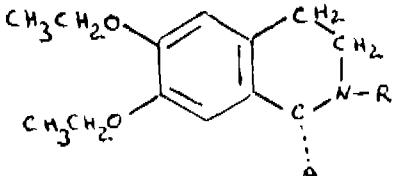
Application No 1719/Cal/75 filed September 1975.

Division of Application No. 83872 filed August 25, 1962.

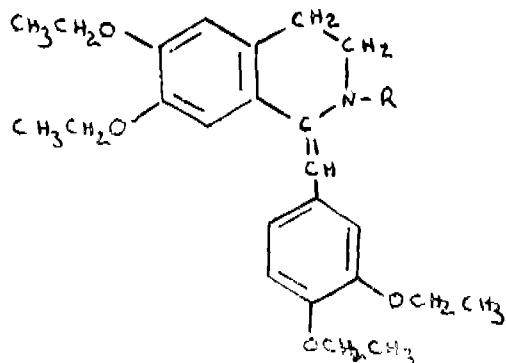
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for the preparation of compounds of formula shown in Fig. 1.



(where A stands for a 3, 4-diethoxy-benzyl or 3, 4-diethoxybenzal group, while R stands for an alkyl, aralkyl, or aryl group) which comprises reducing in a known manner as herein described compounds of the general formula as shown in Fig. 4.



in an acidic medium (where R stands for the same as stated above) and if desired, alkylating or aralkylating in a known manner as herein described the compounds thus obtained in position 2 of the molecule and/or converting the compounds into their salts formed with acids or splitting in a known manner as herein described the salts formed with acids in order to obtain the free base.

CLASS 32F<sub>1</sub> & 55F.

142089.

Int. Cl.-C07c 103/00.

A PROCESS FOR THE PREPARATION OF 5-HYDROXYPROPYONYL-AMINO-2, 4, 6-TRIODO-ISOPHTHALIC ACID BIS-(DIHYDROXY-PROPYLAMIDE).

*Applicant* : SAVAC AG., OF ENGADINSTRASSE 8 (TIVOLI), CH-7001 CHUR, SWITZERLAND.

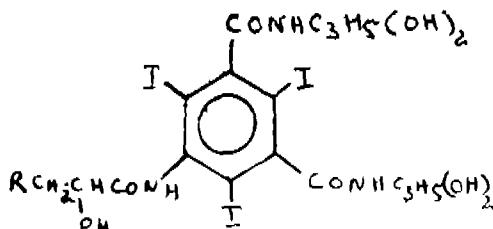
*Inventors* : PROF. DR ERNST FEIDER AND PROF. DR. DAVIDE PITRE.

Application No. 2245/Cal/75 filed November 25, 1975.

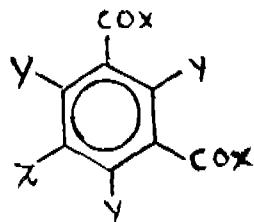
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Process for the preparation of a 5-hydroxy-propionylamino-2, 4, 6-triiodo-isophthalic acid bis-(dihydroxy-propylamide) of the general formula (I).



wherein R denotes hydrogen or hydroxyl and C<sub>6</sub>H<sub>5</sub>(OH)<sub>2</sub> denotes 1, 3-dihydroxy isopropyl radical or the 2, 3-dihydroxypropyl radical which comprises reacting a compound of the general formula (II).



wherein all Y are same and denote hydrogen or iodine, Z denotes an amino group, or an αβ-dihydroxy-propionylamino group or an αβ-dihydroxy-propionylamino group, the or each hydroxyl groups of either of which are protected by an easily reversible protective groups and each -CO-X denotes a reactive functional derivative of a carboxylic acid group such as herein described with a dihydroxypropylamine, the hydroxyl groups of which are also protected by said groups, iodinating by a known method such as herein described the groups Y on the aromatic nucleus which are hydrogen and acylating any 5-amino group by reaction with a compound of the general formula (III).



wherein R denotes hydrogen or hydroxyl, the or each hydroxyl group of which are also protected and -CO-X denotes a reactive functional derivative of a carboxylic acid group such as herein described, whereby there is formed a derivative with one or more protected hydroxyl groups, the protective groups being subsequently removed by a method such as herein described to give the compound of formula I.

CLASS 32F<sub>1</sub> & 40B.

142090.

Int. Cl.-C07c 49/30, B01j.

PROCESS FOR PREPARING CYCLOHEXANONE.

*Applicant* : INVENTA AG FUR FORSCHUNG UND PATENTVERWERTUNG ZURICH, STAMPFENBACHSTRASSE 38, ZURICH 6, SWITZERLAND.

*Inventors* : RICHARD SAILER AND DR. CHEM. MAGDY NICOLA, BRUNO FRJSCHKNECHT.

Application No 121/Cal/76 filed January 22, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims. No drawings.

Process for preparing cyclohexanone by hydrogenation of phenol in the presence of a platinum metal catalyst, characterised in that a mixture of alkaline-earth carbonate and alkaline-earth hydrogen phosphate is employed as catalyst support.

CLASS 32F<sub>2</sub>b.

142091.

Int. Cl.-C07d 99/02.

A PROCESS FOR THE PREPARATION OF DEOXYLAVULANIC ACID AND ISODEXYLAVULANIC ACID AND THEIR SALTS AND ESTERS.

*Applicant* : BEECHAM GROUP LIMITED, OF BEECHAM HOUSE, GREAT WEST ROAD, BRENTFORD, MIDDLESEX, ENGLAND.

*Inventors* : THOMAS TREFOR HOWARTH, JENNIFER GOODACRE AND ROGER JOHN PONSFORD.

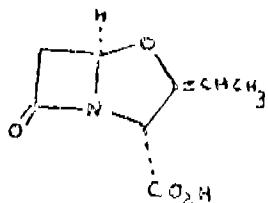
Application No. 511/Cal/76 filed March 23, 1976.

Convention date April 14, 1975/(15209/75) U.K.

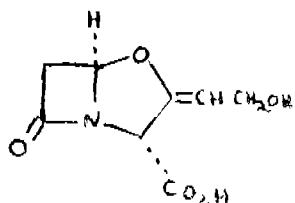
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A process for the preparation of a compound of formula (III).



or a salt or ester thereof which process comprises the hydrogenation of a corresponding compound of the formula (X).



or a salt or ester thereof using an atmospheric or slightly super atmospheric pressure of hydrogen and a palladium catalyst present as at least 1/3 of the weight of the compound of formula (X) shown in the drawings.

## CLASS 70A.

142092

Int. Cl.-B01k 3/00.

## ELECTROLYZER.

*Applicant & Inventor:* GEORGY MIKIRTYCHEVICH KAMARIAN, OF KOTELNICHFSKAYA NABEREZH-NAYA, 25/8, KV.45, MOSCOW, USSR.

Application No. 725/Cal/76 filed April 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

An electrolyzer comprising at least two electrodes having current-distribution supports, whereupon there are mounted electrode members, in which electrolyzer at least one electrode is composed of at least two units having current-distribution supports, whereupon there are mounted electrode members, which units are joined to each other along the side planes of their current-distribution supports, the interconnected current-distribution supports of the units making up the current-distribution support of the units making up the current-distribution support of the electrode

## CLASS 49F &amp; 180.

142093

Int. Cl.-A21b 1/00.

## IMPROVEMENTS IN OR RELATING TO 'TANDOOR' OR BAKING OVEN.

*Applicant:* GLOBE SUPER PARTS, 14/1, MATHURA ROAD, P.O. AMARNAGAR, HARIDABAD, HARYANA, INDIA.

*Inventor:* MR. KRISHAN LAL VERMA.

Application No. 65/Del/76 filed December 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 6 Claims

An improved "Tandoor" or baking oven for baking food-stuff and particularly adapted for making Tandoori Roti or the like comprises a hollow round metallic body having a detachable dome-shaped cover, the said body being fixed upon a supporting ring with central opening, characterised in that the base of the oven body is chimney-shaped with

central opening at the top, over which a dome-like hood is fixed such that when the said oven is placed on the stove or a gas burner, the hot air is sucked in by the chimney action of the base and strikes the dome-like hood fixed over the top from where it is deflected and evenly distributed inside the body and then escapes out through the ducts provided in the said hood thus heating the entire inside body of the "Tandoor".

## CLASS 14A.

142094.

Int. Cl.-H01m 35/12.

## PROCESS FOR MAKING CONTAINER FOR HOLDING LFAD PEROXIDE IN LEAD ACID ACCUMULATORS.

*Applicant & Inventor:* AMBRAITH GOVINDAN, 18, POTTERY ROAD, BANGALORE-5, KARNATAKA STATE, INDIA.

Application No. 100/Mas/75 filed July 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 6 Claims

A process for making containers for holding lead peroxide in lead acid accumulators comprising weaving together synthetic yarns in the form of tube, either as a single unit or as a row of multiple units consisting of desired number of tubes characterised in that the said woven tube or row of tubes is subjected to heat treatment after impregnating the same with a solution of a known plastic resin.

## CLASS 155C &amp; D.

142095.

Int. Cl.-A47i 23/22.

## NON-SKID RUBBER BASED FIBRE-MATS.

*Applicant & Inventor:* PUTHUPARAMPIL IPE IPE, AT RUBUNAGAR P.O. CHANGANACHERRY, KERALA, INDIA.

Application No. 205/Mas/75 filed December 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 5 Claims

A process for producing a non-skid fibre mat with a rubber base comprising:

(a) mixing natural, synthetic or reclaimed rubber in a mixing mill with 4 to 5 parts by weight of Zinc Oxide, 2 to 3 parts by weight of Steric acid, 0.75 to 1.25 parts by weight of an accelerator 'F' such as herein described 0.25 to 0.75 parts by weight of an accelerator TMT such as herein described, 0.5 to 1.00 parts by weight of an anti oxidant RL such as herein described, 5 to 10 parts by weight of a rubber process oil as herein described or pine tar 2.5 to 3 parts by weight of sulphur, 3 to 6 parts by weight of d nitroso penta methylene tetramine and 100 to 250 parts by weight of a filler such as China Clay per 100 parts by weight of the said rubber and sheeting out the said mixture in a sheeting mill or calendering machine and cutting the same to desired shape,

(b) winding natural or synthetic fibre closely on cores and placing the same in the grooves of a metal frame prepared in accordance with the size of the mats,

(c) pressing the said rubber sheet produced in step (a) on to the fibre-wound cores placed in the grooves of a metal frame by conventional methods and heating the same to a temperature of 100°C to 200°C and keeping the material in the pressed position till vulcanisation is complete, and

(d) taking the vulcanised material out of the frame, removing the cores by cutting the top of the fibre and thereafter shearing the top portion of the fibre embedded in the base to a uniform height.

CLASS 6B.  
Int. Cl.-B03c 3/02.

PROCESS FOR THE ELECTROSTATIC PRECIPITATION OF ENTRAINED PARTICLES AND DROPLETS FROM GAS STREAMS.

*Applicant & Inventor* : VELAGAPUDI MARUTHI RAO, P.B. NO. 714,38 MOUNT ROAD, MADRAS-600006, TAMIL NADU, INDIA.

Application No. 194/Mas/76 filed October 7, 1976.

Division of Application No. 37/Mas/74 filed February 27, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 5 Claims

An apparatus for the electrostatic precipitation of entrained particles and droplets from gas streams comprising discharge electrode in the form of wire or any other suitable form such as rods connected with the curved portion of the separating elements which are used for separating entrained particles, mist or oil from gas streams, means for passing high tension supply through the said discharge electrodes, conventional means for giving rapping or vibratory motions to said separating elements and passive electrode which is constituted by the profile wall of a chamber housing said separating means, where drifted charged particles are collected.

CLASS 69D.  
Int. Cl.-H01 36/00

#### SWITCHING DEVICES.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF D-8000 MUNCHEN 22, POSTFACH 251, WEST GERMANY.

*Inventors* : GERT FISCHER, SIEGFRIED SEIDEL AND FRITZ POLLAMM.

Application No. 824/Cal/74 filed April 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

A switching device having an electromagnetic operating arrangement comprising a resiliently mounted laminated core with at least one associated exciter coil, the laminations of which core provide two upstanding pole pieces and portions which project beyond the two pole pieces in the direction from one pole piece to the other, each said projection having through it an aperture in which extends an elongate member being a pin with the interposition of at least one resilient bush between the elongate member and the inner wall of the aperture in the projection to provide the resilient mounting.

CLASS 149B & D.  
Int. Cl.-E02d 7/00.

IMPROVEMENTS IN, AND RELATING TO A METHOD AND DEVICE FOR DYNAMIC COMPACTION.

*Applicant & Inventor* : ASHOK KUMAR, OF 125-KASHIRAM STREET, KHATAULI, (DISTT. MUZAFFAR-NAGAR) U.P., INDIA, AND VIJAY KUMAR—OF 125-KASHIRAM STREET, KHATAULI, (DISTT. MUZAFFAR-NAGAR) U.P. INDIA.

Application No. 246/Cal/75 filed February 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

142096

14 Claims

An improved device for dynamic compaction of loose to medium as well as compact soil strata to make it suitable for raising structures theron comprising a tubular driving member having a shoe towards its far end, said tubular member having a peripheral projection towards its far end adjoining said shoe.

CLASS 74 & 116C & 127C.

142099

Int. Cl.-B65g 15/54.

#### CONVEYOR BELT.

*Applicant* : CLOUTH GUMMIWERKE AKTIENGESELLSCHAFT, OF NIEHLER STRASSE 92-116, 5 KOLN 60, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : HERMANN SPAAR.

Application No. 408/Cal/75 filed March 4, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

Conveyor belt, which is provided with tension-resistant inserts, such as ropes, stranded wires or the like, extending in longitudinal direction and with at least one additional insert comprising of a fabric formed of warp and weft threads for the prevention of longitudinal slits, characterised in that the warp threads of the fabric display a very small tensile strength and the tensile strength of the weft threads of the fabric amounts to at least the eightfold of the tensile strength of the warp threads.

CLASS 179E & G.

142100

Int. Cl.-B67c 9/00, B67d 3/04.

#### CONVENIENCE OPENING OF CONTAINERS FOR LIQUID PRODUCTS.

*Applicant* : CONTINENTAL CAN COMPANY INC., OF 633 THIRD AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors* : JOSEPH EDWARD KERWIN AND PAUL MCKILLOP ERLANDSON.

Application No. 1793/Cal/75 filed September 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims

A container end member for pressurized beverages comprising a panel with a plurality of small closely spaced pour openings and having external and internal sides,

a non-resilient flexible closure tape for said openings comprising a thermoplastic film sealed to the external side only of said container,

a peelable adhesive bonding the film only to the external side of the panel in covering relation to said openings sufficient to hold the internal pressure,

said thermoplastic film having extremely thin sections immediately circumjacent to said openings of a thickness thinner than the remainder of the film to provide essentially an adhesive bond with the panel and having relatively thicker portions projecting as shallow bosses into adjacent openings, said bosses being of a thickness sufficient to limit bulging of the tape in the areas aligned with the openings to an extent below that which would peel the tape off the external side,

said bosses having portions disposed contiguous to the edges of respective openings which extend only a small depth into the openings and terminate intermediate said external and internal sides of the panel and being of sufficient thickness to resist flexure of the tape adjacent to said edges upon application of pressure against the bosses from the internal side

of said panel and thereby preventing peeling of the tape off the panel by the internal pressure within an associated container.

CLASS 39K &amp; 88F.

142101

Int. Cl.-C01b 17/68.

**IMPROVED SYSTEM FOR REMOVING SO<sub>2</sub> GAS FROM EXHAUST GASES FROM A SULFURIC ACID PLANT.**

*Applicant* : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT UNITED STATES OF AMERICA.

*Inventors* : TERENCE MARK ROBERTSON AND LARRY GORDON SMITH.

Application No. 309/Cal/76 filed February 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

In a system for removing SO<sub>2</sub> gas from exhaust gases from a sulfuric acid plant wherein said exhaust gases from said plant are treated in absorbers and/or scrubbers and then conveyed to a mist eliminator system to remove sulfuric acid mist by injecting said exhaust gases into a tank, passing the exhaust gases through mist eliminator units and then conveying the exhaust gases out of the tank, the improvement comprising, when the mist eliminator system is in an overload condition, spraying liquid sulfuric acid onto the outer surface of the mist eliminator units to saturate the same so that the SO<sub>2</sub> gas will be absorbed when coming in contact with said mist eliminator units.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b.

142102

Int. Cl.-C07c 119/00.

**PROCESS FOR THE PREPARATION OF AZACYCLOALKANE COMPOUNDS.**

*Applicant* : CIBA-GEIGY OF INDIA LIMITED, OF AAREY ROAD, GOREGAON EAST, BOMBAY-63, MAHARASHTRA STATE, INDIA, AN INDIAN SUBSIDIARY OF THE SWISS COMPANY CIBA-GEIGY LIMITED, BASLE, SWITZERLAND.

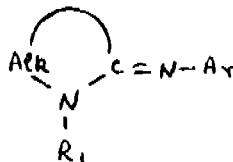
*Inventor* : DR. VISHWA PRAKASH ARYA.

Application No. 175/Bom/74 filed May 3, 1974.

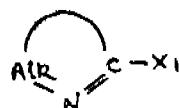
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**7 Claims**

Process for the production of compounds having the general formula I shown in the drawings accompanying the provisional specification.



wherin Alk, is an alkylene residue with 6-14 carbon atoms, Ar represents a phenyl or napthyl radical or a pyrrolyl, pyridyl, furyl, thienyl or quinonyl radical, R, represents a hydrogen atom, an acyl residue or a lower alkyl radical, their tautomers and salts, which comprises reacting a compound of the formula IIa, shown in the drawings accompanying the provisional specification.



in which the residue X, represents halogen atoms, esters of alkyl and acyl sulphonic acids such as methane or benzene-sulphonic acids, lower alkyl thio groups such as methylthio group, an ammonium group such as a triloweralkyl ammonium such as trimethyl-ammonium or a lower alkyl sulphonyl such as methanesulfonyl group with a compound of the formula III shown in the drawings accompanying the provisional specification

ArNH<sub>2</sub>

in which Ar is as defined above, and, if desired, converting the base obtained into a salt thereof by treatment with an acid in a known manner or a salt into a free compound or into another salt by treatment with a base in a known manner.

CLASS 144A &amp; E.

142103.

Int. Cl.-C09d 3/00.

**A PROCESS FOR PREPARING A SECONDARY COATING COMPOSITION.**

*Applicant & Inventor* : PRAVIN AGARWAL, OF 4/12, ROOP NAGAR, DELHI-7, INDIA.

Application No. 1082/Cal/74 filed May 17, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**5 Claims. No drawings.**

A process for the preparation of a second coating composition for use in preparing a coated solid substrate like glass or metal which comprises in preparing a first mixture consisting in adding 35 to 50 parts by volume of hydro-chloric acid and 35 to 55 parts by volume of ethyl alcohol to every 100 parts by volume of hydrolysed ethyl silicate which is thereafter cooled, preparing a second mixture consisting in adding 3 to 7% by weight of hydrolyzed polyvinyl acetate to 60 to 80% by weight of ethanol and 20 to 40% by weight of water and which is stirred, and adding 100 to 140 parts by weight of said second mixture to 150 to 170 parts by weight of said first mixture, 80 to 100 parts by weight to ethanol and 200 to 250 parts by weight of glacial acetic acid.

CLASS 148K.

142104.

Int. Cl.-G03c 7/00.

**PROCESS FOR PRODUCING COLOURED FILMS FROM ORIGINAL BLACK AND WHITE FILMS.**

*Applicant* : DIRECTOR GENERAL, INDIAN COUNCIL OF MEDICAL RESEARCH, ANSARI NAGAR, NEW DELHI-16, INDIA.

*Inventor* : DR. SAMAVEDAM SRINIVASA SRIRAMACHARYULU.

Application No. 1156/Cal/74 filed May 25, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

**4 Claims. No drawings.**

A process for producing coloured film from original black and white films which comprises preparing a copy of the original diagrammatic or textual material by photostatic or electrostatic method, exposing said copy of a black and white film, developing said film by conventional method and thereafter subjecting the developed film to the step of colour toning which comprises first subjecting the film to a step of bleaching and then to the step of metal or dye toning wherein for metal toning the film is treated in a known bleaching and toning solution for at least 15 minutes and the bleached film is treated with ferricyanide solution in the presence of light and for dye toning the film is first bleached in a known bleaching solution for a period of 10 to 15 minutes in the absence of light and thereafter treated with a known dye solution.

CLASS 185A & B. 142105.  
Int. Cl.-A23f 3/00.

IMPROVEMENTS IN OR RELATING TO PROCESS FOR THE MANUFACTURE OF TEA.

*Applicant:* BROOKE BOND LIEBIG LIMITED, OF THAMES HOUSE, QUEEN STREET PLACE, LONDON, E.C. 4., ENGLAND, FORMERLY OF 35 CANNON STREET, LONDON, E.C. 4., ENGLAND.

*Inventors:* JOHN GEORGE FLEETWOOD AND GRAHAM JOHNSTONE.

Application No. 1638/Cal/74 filed July 25, 1974.

Convention date July 27, 1973/(35958/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A process for the continuous production of tea leaf, comprising the steps of withering the leaf, disrupting the leaf, fermentation and firing, characterised in that :—

(a) During disruption the leaf is cooled to a predetermined substantially uniform temperature between 20°C and 30°C by subjecting it a steam of gas, and

(b) During fermentation, controlling the temperature of the disrupted leaf between 20°C and 30°C by continuous or intermittent passage of a gas through the leaf which is simultaneously subjected to a stirring, fluidising or tumbling motion.

CLASS 32C & E & 140B. 142106.  
Int. Cl.-C11b 9/00.

PROCESS FOR THE PRODUCTION OF PINE NEEDLE RESONOJD.

*Applicant:* THE PRESIDENT, FOREST RESEARCH INSTITUTE AND COLLEGES, DEHRA DUN, INDIA.

*Inventors:* VIRENDAR KUMAR SOOD AND SATISH CHANDRA PHARASI.

Application No. 1721/Cal/74 filed August 1, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims. No drawings.

A process for the production of pine needle resonoid from pine needles of *Pinus* species which comprises :—

crushing the needles;

subjecting the crushed needles to the step of extraction with a solvent; concentrating the obtained extract by a method as herein described; and thereafter dewaxing the resonoid by known method

characterized in that

said extraction solvent consists of methylene dichloride.

CLASS 61H. 142107.  
Int. Cl.-F26b 19/00, 20/00.

FLUIDIZED DRIER FOR DRYING TEA, DESICCATED COCONUT, COCOA BEANS, PADDY AND LIKE PRODUCTS.

*Applicant:* THE BOARD OF THE TEA RESEARCH INSTITUTE OF CEYLON, OF ST. COOMBS, TALAWAKELIE, REPUBLIC OF SRI LANKA AND GOVERNMENT OF SRI LANKA SUCCESSOR TO THE BUSINESS UNDER-TAKING OF COLOMBO COMMERCIAL COMPANY (ENGINEERS) LIMITED, OF 121 SIR JAMES PIERIS MAWATHA, P.O. BOX 1191, COLOMBO-2, REPUBLIC OF SRI LANKA.

*Inventors:* DR. DHAYAN KIRTISINGHE AND MR. DON PETER RANASINGHE.

Application No. 1921/Cal/74 filed August 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

Apparatus for use in drying tea, desiccated coconut, cocoa beans, paddy and like products comprising an enclosed chamber divided horizontally by a porous air permeable flat surface, openings for hot air to enter beneath the porous surface, openings for hot air to be exhausted above the porous surface, and openings for the material to enter to one end of the drier, be fluidised and dried by the upward flowing air stream and, be discharge at the other end of the drier.

CLASS 89 & 105B & 195B.

142108.

Int. Cl.-G01f 23/00, G01l 13/00.

A DEVICE FOR MEASURING THE QUANTITY OF GAS IN A GAS CYLINDER.

*Applicant & Inventor:* SANTRAM SHARMA, OF 17/97 ANAND PARBAT, THANSING NAGAR, GALLI NO. 5, NEW ROHTAK ROAD, NEW DELHI-5, INDIA.

Application No. 1963/Cal/74 filed August 31, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A device for measuring the quantity of gas in a gas cylinder comprising a housing having a passage extending therethrough and having an inlet and outlet end, a nozzle assembly provided at the inlet end of said housing and having a passage which is adapted to be in flow communication with the passage of said housing, a ball check valve provided within the passage of said nozzle assembly, a calibrated gauge mounted on said housing and having a passage which is in flow communication with the passage of said housing and such that when said ball valve is in an open status the gas from the cylinder flows to said outlet end through the passages provided in the nozzle assembly and housing and a reading in said gauge is facilitated.

CLASS 116G.

142109.

Int. Cl.-B65g 67/58.

VESSEL FOR TRANSPORT OF BUOYANT CARGO.

*Applicant:* WHARTON SHIPPING CORPORATION, C/O. QUIJANO ASSOCIATES, AVENIDA J. AROSEMA Y CALLE 32, EDIFICIO VALLARINO, PANAMA.

*Inventors:* WILLIAM EVERETT AND DAVID JACKSON SEYMOUR.

Application No. 1283/Cal/75 filed June 28, 1975.

Addition to No. 2875/Cal/74.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

In a vessel for transport of floating buoyant cargo carriers as claimed in parent Specification No. 2875/Cal/74 and having a hull with a bottom shell, rigid cargo-supporting and hull-reinforcing structure extending above said shell, side walls extending upwardly from said shell and providing a series of buoyancy compartments, and a cargo hold, means for introducing and expelling water and air into and from said buoyancy compartments, gate means in said hull for enabling flotation loading and unloading in said hold of said floating cargo carriers and for closing during transportation thereof, and securing means for releasably locking said cargo

carriers in place in said hold against movement relative to said hull all during a voyage of said vessel, the improvement comprising in that:

said bottom shell being imperforate,

water conduit means in said side walls communicating between the ocean and said hold for passing water from the ocean into and out of said hold in accordance with the draft of said vessel and the motion thereof during voyage.

## CLASS 116E.

142110.

Int. Cl.-B66f 1/06, B66d 3/00, F16d 41/30, F16p 19/02.

## IMPROVED RATCHET &amp; PAWL ARRANGEMENT USED FOR LOAD REVERSING IN PULLING &amp; LIFTING MACHINE.

*Applicant*: TRACTEL TIRF OR INDIAN PRIVATE LIMITED, 15, GANESH CHANDRA AVENUE, CALCUTTA-700 013, WEST BENGAL, INDIA.

*Inventor*: DR. PRADIP KUMAR CHAKRAVARTY.

Application No. 244/Cal/77 filed February 18, 1977.

*Inventor*: DR. PRADIP KUMAR CHAKRAVARTY.

6 Claims.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A load reversing mechanism in pulling and lifting machine characterised in quick reversal of load comprising a ratchet and pawl arrangement wherein the pawl in the mechanism is rotatably mounted on a shaft and having two active faces for engagement on the ratchet and which is under pressure by a plunger and spring assembly for engagement with the ratchet or keeping it in neutral position, the load can be lifted or lowered by engaging two active faces of the pawl, one for lifting and other for lowering, when to and from motion is imparted to the operating handle assembly.

## CLASS 141A.

142111.

Int. Cl.-C21b 1/14.

## METHOD OF PRODUCING BURNED PELLETS FROM A CHROMIUM ORE OR CONCENTRATE IN SHAFT FURNACE AND THE PELLETS PRODUCED THEREBY.

*Applicant*: ELKEM-SPIGERVERKET A/S, OF ELKE-MHUSSET, MIDDELHUNSGATE 27, OSLO 3, NORWAY.

*Inventor*: ERIK QVALE DAHL.

Application No. 705/Cal/74 filed March 29, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims. No drawings.

A method of making burned pellets from a chromium ore or concentrate which comprises pelletizing a mixture comprising the pulverulent ore or concentrate, a binder and sufficient of a carbonaceous fuel to provide a carbon content in the pellets corresponding to 0.5% to 2.5% by weight based on the weight of the ore or concentrate, and burning the resultant pellets in a shaft furnace.

## CLASS 27-I &amp; M.

141212.

Int. Cl.-E04b 1/38.

## STRUCTURAL JOINT AND METHOD OF FORMING THE SAME.

*Applicant & Inventor*: ROBERT JOHN REID, OF 50 TRANSWELL AVENUE, WILLOWDALE, ONTARIO, CANADA.

Application No. 810/Cal/74 filed April 10, 1974.

Convention date July 9, 1973/(175,985/73) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 25 Claims.

A method of forming a structural joint between a first and a second rigid element, said first element having a flange with a substantially planer outer end extending from a face thereof, a longitudinally extending elongate groove which is substantially arcuate in cross-section being provided in said second element, each said groove having opposed edges which define an elongate opening of a dimension which permits entry of said flange into said groove, the distance between said opposed edges being less than the largest cross-sectional width of said groove; said method comprising

placing the outer end of said flange into the elongate opening of said groove, along a path offset from the central axis of said groove; and

applying sufficient external force to at least one of said first and second elements to cause relative movement between said elements so as to decrease the distance between the opposing faces thereof and thereby deform said flange within said groove to form at least a portion of a coil therein having a width which is greater than the width of said elongate opening, the thickness of said flange remaining essentially unchanged as it is being coiled within said groove, the outer surface of the deformed flange contacting the arcuate surface of said groove where the coiled metallic flange has a sufficient degree of resiliency that the coiled flange is urged to spring outwardly and exert an outward frictional binding force on the arcuate surface of said groove to secure the deformed flange in said groove.

## CLASS 85A &amp; I &amp; J.

142113.

Int. Cl.-F23I 15/02.

## IMPROVEMENTS IN OR RELATING TO A BLAST PREHEATER.

*Applicant*: DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.

*Inventors*: DIPLING, ERWIN MEISSNER, DR-ING. ROLF ROSSOW, FRIEDRICH WILHELM DREBES AND HEINZ THUBEAUWILIE.

Application No. 936/Cal/74 filed April 24, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A blast preheater column with a combustion chamber which is included in the substantially circular cross-section of the jacketed blast preheater and is adapted to extend into the cupola thereof and is preceded in an axial, lower extension by a mixing chamber which is surrounded with refractory brickwork and has superjacently disposed external gas and air supply ducts, wherein a vertical feather rib is mounted on the internal wall opposite to the centrally disposed superjacent gas and air supply ducts in the oval mixing chamber preceding the combustion chamber with an approximately oval horizontal cross-section along the cylindrical wall of the blast preheater so that the incoming gas and air streams are divided and are introduced tangentially into the oval mixing chambers halves which are formed by the rib

## CLASS 127-I &amp; 129-G.

141214.

Int. Cl.-B65h 11/00, 49/00

## A WIRE TAKE-UP ASSEMBLY

*Applicant & Inventor*: INDRAJIT CHALIHA, OF CHAUJA ROLLING MILLS PVT. LTD., 5, MISSION ROW, CALCUTTA-1, WEST BENGAL, INDIA.

Application No. 1428/Cal/74 filed June 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

A wire take-up assembly having a frame provided with a block fixedly mounted thereto said block having a retaining lip at the open end thereof, a hollow rotatable drive shaft coaxially located respective to the block and lead-on guide means provided for enabling wire to be drawn through the bore of the rotatable shaft on to the block and lead-off guide means for enabling the drawn wire to be led away and cast helically into a hopper or conveyor system for further processing.

CLASS 129B. 142115.  
Int. Cl.-B21c 23/21.

**A METHOD OF MANUFACTURING AN EXTRUDED METAL COMPONENT AND THE METAL COMPONENT SO PRODUCED.**

*Applicant:* THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND.

*Inventor:* DAVID THOMAS TRANTER.

Application No. 1461/Cal/74 filed July 1, 1974.

Convention date July 6, 1973/(32446/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims.

A method of manufacturing an extruded metal component of the kind specified, comprising the steps of:—

(a) starting with a hollow, substantially cylindrical metal billet.

(b) engaging a first punch with one end of the billet and using said first punch to perform an extrusion operation on the billet by causing the billet to undergo movement relative to a die cavity, the extrusion operation being arranged to cause material of the billet to flow so as to produce the required one or more axially extending splines and thereby form the required component, and

(c) during the extrusion operation applying a load to a second punch to urge the second punch against other end of the billet, said load being such that the second punch is moved relative to the die cavity by the material which is being extruded and said material being extruded is shaped by the second punch so as to substantially fill the die cavity and thereby define the end of the component corresponding to said other end of the billet.

**OPPOSITION PROCEEDINGS**

## (1)

An opposition has been entered by The Cementation Company Limited to the grant of a patent on Application No. 140412 made by Chiyoda Chemical Engineering & Construction Company Limited.

## (2)

An Opposition has been entered by The Cementation Company Limited to the grant of a patent on Application No. 140413 made by Chiyoda Chemical Engineering & Construction Company Limited.

## (3)

The application for patent No. 138535 made by Prabhakaran Chaki in respect of which an opposition was entered by Belpahar Refractories Ltd. as notified in Part III, Section 2 of the Gazette of India dated the 11th September 1976 has been treated as withdrawn.

## (4)

The application for patent No. 138535 made by Prabhakaran Chaki in respect of which an opposition was entered by Orissa Cement Limited has been treated as withdrawn.

**PATENTS SEALED**

120702 139171 139461 139584 139683 139720 139775 139834  
139835 139840 139951 139970 139978 140012 140013 140014  
140015 140018 140021 140022 140026 140028 140029 140030

140031 140033 140039 140041 140045 140046 140047 140048  
140049 140054 140055 140058 140059 140061 140062 140063  
140065 140070 140110 140120 140136 140137 140139 140141  
140160 140271 140293 140315 140392 140647

**PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
107118 (20.4.72)	A process for preparing steroids of 1, 4-diene-3, 17-dione structure.
107119 (20.4.72)	New Derivatives of 6-amino-penicillanic acid of pharmaceutical value.
112472 (20.4.72)	Process for the preparation of new 3-substituted 1-oxo-isindolines and 2, 3-substituted 1-oxo isoindolines.
117743 (20.4.72)	2-methyl-3-amidino-quinoxaline-di-N-oxides -(1,4) substituted on the amidine nitrogen.
131397 (20.4.72)	Process for preparing quinoxaline-DI-N-oxides.
122465 (20.4.72)	Process for the production of indolines.
123094 (20.4.72)	Process for the production of N-substituted ammonium dialkoxydithiophosphates.
123441 (20.4.72)	Improved process for the conversion of $\alpha$ -carboxyloxybenzylpenicillins to $\alpha$ -carboxybenzylpenicillins.
124525 (20.4.72)	Substituted oxepino derivatives, process for the preparation thereof and pharmaceutical composition containing the same.
127804 (20.4.72)	Preparation of new antibiotic.
127925 (20.4.72)	Improvements in or relating to the manufacture of menthol (B.P.)
128039 (17.8.70)	Process for manufacture of hydrogen peroxide.
128040 (17.8.70)	Process for the manufacture of hydrogen peroxide
128426 (14.9.70)	Method for preparing a paper pulp from fibrous non-woody lignocellulose plant material.
129150 (9.11.70)	Soap tablet production.
129663 (19.12.70)	Process for the vulcanization of ethylene-propylene terpolymer.
129697 (22.12.70)	Production of reaction products of phosphoric acid, urea, and ammonia.
131270 (20.4.72)	A process for the preparation of a new pharmaceutically active 2, 3-diazabicyclo [5.4.0] Undecapentaene derivative.
131853 (20.4.72)	Process for the preparation of butramidine derivatives.
131977 (20.4.72)	A process for the acylation of 17 $\beta$ -hydroxysteroids containing enolizable oxo-group.
132292 (20.7.71)	Process of making a milk coagulating enzyme preparation.
132452 (20.4.72)	Process for producing triazolobenzodiazepine derivatives.
132907 (20.4.72)	Process for preparing the antibiotic lincomycin.
133022 (23.9.71)	A process for the decomposition of unconverted organic peroxy compounds present in the reaction product or effluent obtained by the epoxidation of olefinic compounds.

133166 (20.4.72) Method for preparation of N-substituted 4-anilines piperidines.

133207 (20.4.72) Process for the production of benzodiazepine derivatives.

133332 (20.4.72) 1, 6-disubstituted 4H-S-Triazolo [4, 3-A] [1, 4] benzodiazepines and process for the production thereof.

#### RENEWAL FEES PAID

82100 82514 82537 82685 82710 83205 85180 88051 88133  
 88134 88539 88585 90919 93571 93606 93616 93636 93644  
 93663 93692 93693 93695 93837 93945 93953 94006 94020  
 94315 95465 97304 97929 99348 99353 99354 99422 99462  
 99517 99551 99558 99667 99699 99725 99822 99829 99830  
 100261 100351 103652 105011 105026 105031 105212 105216  
 105217 105218 105242 105312 105323 135371 105453 105494  
 105495 105526 105958 106039 108085 108917 110357 110465  
 110482 110483 110501 110562 110658 110670 110677 110720  
 110721 110787 110848 111719 112525 115482 115589 115729  
 115761 115804 115805 115813 115824 115846 115879 115924  
 115948 115988 116011 116012 116093 116107 116149 116169  
 116234 117940 119147 120750 121199 121206 121210 121256  
 121260 121267 121283 121334 121347 121348 121349 121422  
 121438 121588 121679 121981 122379 123106 126498 126512  
 126520 126555 126556 126596 126624 126657 126693 126696  
 126725 126759 126768 126786 126820 126829 126851 127168  
 127710 127946 127947 129425 130960 131090 131210 131212  
 131221 131239 131282 131286 131287 131290 131317 131333  
 131357 131386 131416 131417 131420 131433 131434 131455  
 131458 131468 131469 131486 131487 131501 131503 131514  
 131552 131670 131831 135366 135377 135393 135406 135447  
 135492 135501 135506 135531 135564 135574 135629 135691  
 135692 135711 135752 135775 135945 136013 136088 136202  
 136229 136241 136242 136272 136320 136344 136413 136638  
 136821 136907 136959 137237 137383 137398 137399 137518  
 137705 138072 138102 138194 138288 138331 138465 138466  
 138467 138537 138876 138891 138932 139002 139020 139029  
 139073 139102 139146 139186 139233 139276 139309 139310  
 139338 139347 139393 139407 139413 139418 139419 139431  
 139436 139467 139476 139479 139480 139481 139498 139508  
 139509 139538 139549 139556 139557 139566 139598 139599  
 139605 139610

#### CESSATION OF PATENTS

83865 83899 83906 83911 83919 83999 84014 84016 84021  
 84062 84083 84091 84117 84184 84201 84207 84208 84214  
 84215 84261 84295 84304 84333 84350 84398 84422 84447  
 84459 84460 84502 84510 84535 84536 84559 84588 84590  
 84603 84625 84702 84720 84725 84727 84733 84734 84744  
 84766 84785 89137 96024

#### RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 89137 granted to Jayantilal Shyamdas Jhaveri for an invention relating to "Magnetic game boards". The Patent ceased on the 29th July 1976 due to non-payment of renewal fees within the prescribed time and the cessation of the patent

was notified in the Gazette of India, Part-III, Section-2 dated the 28th May 1977.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17, on or before the 29th July 1977 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of patent No. 105081 granted to Council of Scientific and Industrial Research subsequently assigned to National Research Development Corporation of India for an invention relating to "chemical recovery of tin metal from the acid detinning bath". The patent ceased on the 29th April, 1976 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 5th December, 1976.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17, on or before the 28th July 1977 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

NIL

#### COPYRIGHT EXTENDED FOR A SECOND PERIOD OF FIVE YEARS

Design Nos. 139615, 140057, 140058, 140059, 140060, 141403, 141404, 142596 & 142597.—Class 1.

Design Nos. 139470, 139558, 139971, 140020, 140107, 140108, 140109, 140110, 140111, 140112, 140113, 140120, 140131, 140152, 140153, 140722, 141007, 141743, 144557 & 144558.—Class 3.

Design Nos. 139601, 139716, 140100, 140101, 143925, 143926, 143927, 143928, 143929 & 144363.—Class 4.

Design No. 139580.—Class 10.

Design Nos. 139496, 139712, 139713.—Class 12.

#### COPYRIGHT EXTENDED FOR A THIRD PERIOD OF FIVE YEARS

Design Nos. 131721, 131828, 140057, 140058, 140059, 140060, 142596, 142597.—Class 1.

Design Nos. 131189, 131190, 130703, 139971, 140120, 141007, 141743, 144557 & 144558.—Class 3.

Design Nos. 130063, 131239, 131240 & 144363.—Class 4.

Design No. 130741.—Class 8.

#### Cancellation of the registration of Designs (Section 51A)

An application has been made by M/s. Permanent Magnets Limited for cancellation of the registration of Design No. 144127 in Class I in the name of Morris Electronics Limited.

S. VEDARAMAN,  
Controller-General of Patents,  
Designs & Trade Marks.